

Table 2. Results of analyses of total phosphorus concentrations and particle-size determinations for selected soil cores in and near Cheney Reservoir watershed, south-central Kansas, September 1999

[mg/kg, milligrams per kilogram; mm, millimeter; --, not determined]

Coring-site number (fig. 1)	Depth of soil core (inches)	Type of sample	Total phosphorus concentration (mg/kg)	Soil particle size less than 0.062 mm (percent)	Coring-site number (fig. 1)	Depth of soil core (inches)	Type of sample	Total phosphorus concentration (mg/kg)	Soil particle size less than 0.062 mm (percent)
1	2	Primary	202	31.5	20	8	Sequential replicate	207	35.0
	8	do.	144	35.2		2	do.	279	45.7
2	2	do.	263	49.1	21	8	do.	274	31.8
	8	do.	215	50.7		2	Primary	325	48.8
3	2	do.	262	20.2	22	8	do.	282	50.1
	8	do.	87.5	19.3		2	do.	395	65.8
4	2	do.	110	28.6	23	8	do.	322	59.8
	8	do.	94.7	24.7		2	do.	326	71.2
5	2	do.	99.1	48.7	24	8	do.	271	73.9
	8	do.	129	46.6		2	do.	199	28.9
6	2	do.	157	28.4	25	8	do.	103	29.0
	8	do.	105	19.5		2	do.	111	18.0
7	2	do.	200	34.0	26	8	do.	114	14.4
	8	do.	79.7	34.4		2	do.	302	39.4
8	2	do.	167	44.8	27	8	do.	132	31.5
	8	do.	134	38.0		2	Sequential replicate	213	30.2
9	2	do.	146	18.6	28	8	do.	99.0	31.3
	8	do.	65.5	26.2		2	do.	115	28.4
10	2	Split replicate	54.6	--	29	8	do.	141	31.3
	8	do.	70.0	--		2	Primary	268	47.4
11	2	Primary	219	25.6	30	8	do.	214	46.4
	8	do.	158	22.4		2	Sequential replicate	163	82.3
12	2	do.	121	40.1	31	8	do.	226	43.9
	8	do.	49.8	34.1		2	do.	231	36.7
13	2	do.	341	54.2	32	8	do.	202	40.4
	8	do.	205	42.7		2	Primary	263	38.4
14	2	do.	195	50.0	33	8	do.	226	41.1
	8	do.	60.6	48.9	34	2	Split replicate	242	--
15	2	Sequential replicate	75.6	53.9		8	do.	183	--
	8	do.	74.0	50.0	35	2	Primary	211	35.1
16	2	do.	93.1	57.5		8	do.	145	34.1
	8	do.	78.6	60.6	36	2	Split replicate	202	--
17	2	Primary	323	21.3		8	do.	167	--
	8	do.	409	2.8	37	2	Primary	472	56.2
18	2	do.	293	42.8		8	do.	360	54.2
	8	do.	227	38.5	38	2	do.	344	44.4
19	2	do.	355	48.0		8	do.	186	46.5
	8	do.	243	35.5	39	2	do.	539	50.6
20	2	do.	325	49.6		8	do.	129	66.8
	8	do.	187	42.9	40	2	do.	359	54.7
21	2	do.	204	52.6		8	do.	137	55.2
	8	do.	106	.4	41	2	do.	86.8	39.8
22	2	Split replicate	207	--		8	do.	71.4	40.8
	8	do.	118	--	42	2	Split replicate	61.9	--
23	2	Primary	186	13.8		8	do.	90.4	38.2
	8	do.	140	17.7	43	2	Primary	294	55.3
24	2	do.	287	35.7		8	do.	201	51.0
	8	do.	216	31.9					
25	2	Sequential replicate	266	36.1					

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Coring-site number (fig. 1)	Depth of soil core (inches)	Type of sample	Total phosphorus concentration (mg/kg)	Soil particle size less than 0.062 mm (percent)
36	2	Primary	373	74.9
	8	do.	339	71.1
37	2	do.	245	29.9
	8	do.	250	27.8
38	2	do.	241	7.9
	8	do.	166	26.9
39	2	do.	218	53.3
	8	do.	253	49.7
40	2	do.	257	48.6
	8	do.	94.0	31.6
	2	Sequential replicate	288	50.0
	8	do.	223	47.1
	2	do.	304	47.5
	8	do.	239	48.6
41	2	Primary	277	65.5
	8	do.	255	66.4
42	2	do.	394	87.6
	8	do.	317	87.6
43	2	do.	145	.4
	8	do.	160	53.0